=> b casre
FILE 'CASREACT' ENTERED AT 18:10:04 ON 08 APR 2008
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FILE CONTENT: 1840 - 5 Apr 2008 VOL 148 ISS 15

New CAS Information Use Policies, enter HELP USAGETERMS for details.

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que sta 19 L7 STR

PRO 10 11
G1 G1
S S
G1~C—C—C—C—C~G1
9 5 6 7 8 12

VAR G1=OH/SH/13/15/17/NH2 VAR G2=AK/CHO/19 VAR G3=O/S NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L9 0 SEA FILE=CASREACT SSS FUL L7 (0 REACTIONS)

100.0% DONE 33643 VERIFIED 0 HIT RXNS 0 DOCS SEARCH TIME: 00.00.04

=> b reg
FILE 'REGISTRY' ENTERED AT 18:10:09 ON 08 APR 2008
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STRUCTURE FILE UPDATES: 7 APR 2008 HIGHEST RN 1012704-12-9

DICTIONARY FILE UPDATES: 7 APR 2008 HIGHEST RN 1012704-12-9

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting ${\tt SmartSELECT}$ searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> d que sta 112 L10 STR

VAR G1=SH/11
VAR G2=OH/9
NODE ATTRIBUTES:
CONNECT IS M1 RC AT 1
CONNECT IS M1 RC AT 2
CONNECT IS M1 RC AT 3
CONNECT IS M1 RC AT 4
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE L12 71 SEA FILE=REGISTRY SSS FUL L10

100.0% PROCESSED 431877 ITERATIONS SEARCH TIME: 00.00.02

71 ANSWERS

=> b hcap FILE 'HCAPLUS' ENTERED AT 18:10:15 ON 08 APR 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 8 Apr 2008 VOL 148 ISS 15 FILE LAST UPDATED: 7 Apr 2008 (20080407/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs 11 tot

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LI ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:472358 HCAPLUS
N 143:5500 fteratins from animal hides
I Buenler, Holger; Teles, Joaquim Henrique; Sueling, Carsten; Taeger, Tilman
Buenler, Holger; Teles, Joaquim Henrique; Sueling, Carsten; Taeger, Tilman
PA BASE Aktiengesellschaft, Germany
OPT TO THE APPL: 43 PP.
CODEN: PIXXD2
PIX MODERN PIX MODERN PIX MODERN PIX BE CALCH.
NO, NZ, OM, NR, MM, MM, DZ, EC, ER, EG, ES, FI, GB, GD,
GC, GH, GM, HR, HU, TD, LI, NN, LS, DY, NE, KG, KF, RR, KE, LC,
LK, LR, LS, LT, LU, LV, MM, MD, MG, MK, MM, MM, KK, MC, MA, NI,
NO, NZ, OM, PG, PH, PL, PT, RD, CH, SC, SD, SE, SC, SK, SL, SY,
NC, MR, MR, MR, MR, MR, MR, MR, DS, SL, SC, TZ, UG, ZM, ZM, AR,
AR, PIX KG, KZ, MD, RU, 13, TM, AI, ER, BG, CH, CY, CC, DE, DK,
SE, SI, SK, TR, BF, BJ, CH, CY, CG, CD, CM, MM, MR,
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=> d bib abs hitstr 137 tot

L37																			
AN	2005:324131 HCAPLUS																		
DN	142:373670																		
TI	Method for the preparation of bisepoxides from conjugated dienes using peroxides and manganese catalysts in the presence of cyclic amine liquids.																		
IN	Buehler, Holger; Teles, Joaquim Henrique; Pabst, Gunther; Taeger, Tilman Luedecke																		
PA	BASF Aktiengesellschaft, Germany PCT Int. Appl., 23 pp.																		
so	CODEN: PIXXD2																		
DT	Patent																		
LA	German																		
FAN.	CNT 1																		
	PATENT NO.					KIND DATE				APPL					DATE				
PI						A2 20050414				2004WO-EP0010123									
	WO2005033070				A3		2005												
	W:						ΑU,												
							DE,												
							ID,												
							LV,												
							PL,												
							TZ,												
	RW:						MW,												
							RU,												
							GR,												
					BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,		
			TD,	ΤG															
	DE1	A1 20050421									20030917 < 20040910 <								
	EP1663964														A2 20060607				
	R:													NL,	SE,	MC,	PI,		
							TR,												
	CN				A		2006			2004						0040			
	BR200				Α		2006			2004						0040			
	EP				Al		2007			2007						0040			
	R:						CZ,							GB,	GR,	ΗU,	IE,		
							PL,												
	CN10				A		2007									0040			
	US-2006				Al		2006	1214		2006	US-0	0057	1772		2	0060	315	<	
PRAI	2003DE-			2	A.		2003	0917	<-										
	2004CN-	A3		2004	0910	<													
	2004EP-						2004												
	2004WO-				W		2004	0910	<-	-									
OS GI	MARPAT	142:	3736	70															

A method for the production of bisepoxides comprises treatment of conjugated dienes H2C:CHCH:CHR1 (R1 = H, alky1, hydroxyalky1, mercaptcalky1) with presence of a catalyst, obtained by bringing into contact 21 of A2MnX4. AMNX3, MNX MNX2, MNX2 (MX2 monovalent anion; Y = divalent anion; A = alkali metal, optionally alkylated ammonium), with 21 triarcayclonoanen ligand (f; R2 = alky1) and 21 co-ligand derived from mono-, di-, or poly-carboxylic acids or diamines. Thus, 1,3-butalene, 1,4,7-triarchy1-1,4,7-triaracyclonoane, magnasee diacetate, Na oxalate, oxalic acid, and H2O2 were autoclaved in MeCN at room temperature to give a \$5.5 yield of a 2,2-bioxirane solution containing to give a solution comprising 40 molk srythro- and 60 mol 4 mecN at three-1,4-dimercaptobutane-2,3-diol. The mixture was used in preparation of dehaired cattle hides.

L37 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
IT 3483-12-3P, three-1,4-Dimercaptobutane-2,3-diol 6892-68-8P

**PTAND-1,4-Dimercaptobutane-2,3-diol 6892-68-8P

**REFINED-1,4-Dimercaptobutane-2,3-diol final final

Relative stereochemistry.

RN 6892-68-8 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,35)-rel- (CA INDEX NAME)

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208:23620 MCAPLUS
NAY 2005:23620 MCAPLUS
NAY
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HS SH

L42 ANSWER 1 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

OH

HS

OH

RN 6892-68-8 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME)

HS SH

RE.CNI 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 AN DN TI

ANSWER 4 OF 31 HCAPLUS COPYRIGHT 2008 ACS ON STN 2003:931541 HCAPLUS 139:397165

L42 ANSWER 3 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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L42 ANSWER 4 OF 31 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued) salts)

R3483-12-3 HCAPLUS
CN 2,3-Battanediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)
Relative stereochemistry.
HS S S
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THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

RE.CNT 3

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DN 139:397165

IN 149:1397165

IN Method for removing horn-like substance from skins, pelts, or furs

I Meethod for removing horn-like substance from skins, pelts, or furs

I Meethod for removing horn-like substance from skins, pelts, or furs

I Meethod for removing horn-like substance from skins, pelts, or Stephan; Schroeder, Stefan

BA Basf Aktiengesellschaft, Germany

BOT Int. Appl., 25 pp.

CODEN: PIXXD2

DI Patent

AGERMAN

FAN COMMAN PIX DATE

APPLICATION NO. DATE
                               APPLICATION NO.
       PRAI
                                           rac-dithiothreitol provide leather with less swelling in subsequent processing. ICM CLRC-007/06 ICM CLRC-007/0
                                                                   (removing horn-like substances from skins, pelts,
or furs by aliphatic thiols optionally containing hydroxy groups or their
                                        or furs by aliphatic thiols optionally containing hydroxy groups or onest salts]
salts]
salts]
salts]
salts]
the salts are sal
142 ANSWER S OF 31 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2002:927569 HCAPLUS
III Production of pluripotent mammalian stem cells by somatic cell reprogramming
IN Johnson, Penelope Ann; Woldwarz, Richard Gregory
A Intercytex Limited, UK
SO ECT Int. Appl., 90 pp.
COMBAN PIXXOZ

COMBAN PIXXOZ

LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DA
                                   PI
    AB
                                      5-11 (Sicohemical Methods)
Section cross-reference(s): 63
Skin
(epidermis; production of pluripotent mammalian stem cells by somatic cell
reprogramming)
Annial tissue culture
Annicotidants
Cartilage
Cell membrane
Cell proliferation
Culture media
Drug screening
Camete and Germ cell
Heart
Henatopoletic precursor cell
Homogenization
Human
Intestine
Liver
Mammalia
Mitosis
Muscle
Respiratory system
Skin in
Solleen
       IT
                                             Sonication
Spleen
Stem cell
                                             Stomach
Transplant and Transplantation
(production of pluripotent mammalian stem cells by somatic cell
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L42 ANSWER 5 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

142 ANSWER 5 OF 31 HCAPLUS COPTRIGHT 2008 ACS on STN (Continued)
reprogramming)
II 56-65-5, ATP, biological studies 56-81-5, Glycerol, biological studies
57-50-1, Sucrose, biological studies 60-24-2, @-Mercaptocethanol
67-07-2, Creatine phosphate 86-01-1, GTP 3483-12-3,
Dithiotherictlo 7768-30-3, Magnesium chloride (MgCl2), biological studies
9001-15-4, Creatine kinase 17181-54-3, \$\mathcal{P}_{\text{Glycerophosphate}}\$
3130-18-9, Nocodarole 37353-31-4, Vandadte
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(production of pluripotent mammalian stem cells by somatic cell
reprogramming)

Relative stereochemistry.

L42 ANSWER 6 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued) Relative stereochemistry.

RN 6892-68-8 HCAPLUS CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME)

Relative stereochemistry.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

142 ANSWER 6 OF 31 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2002:695739 HCAPLUS
DN 137:221766
DN 137:221766
TA thio compositions
A thio combini, Krithivasan; Mani, Indu; Raman, Govindarajan
Pathir and the Column of t 31566-31-1, uspects more and standard s

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ANSWER 7 OF 31 HCAPLUS COPPRIGHT 2008 ACS on STN
AN 2002:286138 HCAPLUS
III Acquisition of hair proteins for hair diagnosis and production of medicinal and chemical materials
IN Fujii, Toshihiro
Bu Ueda Seni Kagaku Shinkokai, Japan
50 Jpn. Nokai Toskyo Noho, 8 pp.
CODEN JUXXAR
I JAPANESE
FANLCNI I
A Japanese
FANLCNI I
PALENT NO. KIND DATE APPLICATION NO. DATE
Distant

1A Japanese
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1 PATENT NO. KIND DATE APPLICATION NO. DATE

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PATENT NO. PATENT NO. CONTROL OF A CONTRO
                Relative stereochemistry.
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Asswer 8 OF 31 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2002:5:716 HCAPLUS
DN 136:10739 To ensymatic treatment of textiles such as wool for improving dimensional stability dimensional stability
IN Griffin, Martin; Cortex, Joao Marques; Bonner, Philip
A The Nottingham Trent University, UK
SO PCT Int. Appl., 39 pp.
COODER: DYIXOD
LA Register
FAN.CNI 1
FAN.CNI 
Fibronectins
Reratins
Peptones
Proteins
Ri: MOA (Modifier or additive use); USES (Uses)
(active agents; method for entymic treatment of textiles such as wool
(active agents; method for entymic treatment of textiles such as wool
(active agents; method for entymic treatment of sextiles such as wool
(active agents; method for entymic treatment of textiles such as wool
sodium sulfide, uses 3493-12-3, Dithiothreitol
Ri: MOA (Modifier or additive use); USES (Uses)
(reducing agents; method for entymic treatment of textiles such as wool
for improving dimensional stability)
Ri: MOA (Modifier or additive use); USES (Uses)
(reducing agents; method for entymic treatment of textiles such as wool
(reducing agents; method for entymic treatment of textiles such as wool
(active agents)
3483-12-3 KCAPUS
2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)
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Relative stereochemistry.

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Answer 9 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2001;798235 HCAPLUS
II The Use of atalide antibiotic compositions for treating or preventing a bacterial or protocola infection in mammals
IN Boettner, Wayne Alan; Canning, Peter Connor
Politer Products Inc., USA
OF CT Inc. Appl., 74 pp.
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FAN.CHI 1
PALENT NO. KIND DATE APPLICATION NO. DATE
                                   uisciosed.
ICM C07H-017/08
ICS A61K-031/7052; A61P-031/04; A61P-033/02
1-5 (Pharmacology)
        IC
                                           ICS AGIX-031/7052; AGIP-031/04; AGIP-033/02

1-5 (Pharmacology)
Section cross-reference(s): 33, 63
Mouth
Respiratory tract
Skin, disease
Unitariant of the state 
        cc
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L42 ANSWER 8 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

studies 6-6-8-0, Isopropanol, biological studies 6-6-8-5, Dimethyl sulfordie, biological studies 6-6-8-6, Isopropanol, biological studies 6-6-8-5, Dimethyl sulfordie, biological studies 6-7-8-7, Salicylic acid, biological studies 70-18-8, Glutathione, biological studies 73-22-1, L-Tryptophane, biological studies 79-27-7, Balicylic acid, biological studies 70-18-8, Glutathione, biological studies 73-22-1, L-Tryptophane, biological studies 79-34-8, L-Lactic acid, biological studies 79-35-8, L-Lactic acid, biological studies 87-73-0. D-Glucaric acid 87-69-4, L-Tartaric acid, biological studies 87-73-0. D-Glucaric acid 89-65-6, Erythorbic acid 90-612-8, Mandelic acid 92-70-6, 3-Hydroxy-2-naphthoic acid 94-13-3, Propylparaben 94-26-8, Burlyparaben 94-22-2, lactobiolic acid 90-612-3, Mandelic acid 92-70-6, 3-Hydroxy-2-naphthoic acid 94-13-3, Propylparaben 94-26-2, Burlyparaben 94-22-2, lactobiolic acid, biological studies 104-18-4, p-Tollucersulfonic acid, biological studies 120-40-9, Adplic acid, biological studies 127-66-6, Asocobyl palnitate 141-42-2, Malonic acid, biological studies 137-66-6, Asocobyl palnitate acid 500-218-8, Monthylogical studies 137-66-6, Asocobyl palnitate acid 500-218-8, Monthylogical studies 137-66-6, Asocobyl palnitate acid 500-218-9, Monthylogical studies 137-63-54, Acotylcysteine 872-50-4, B-Methyl-2-pyrrolidone 616-91-7, Acotylcysteine 872-50-4, B-Methyl-2-pyrrolidone 616-91-7, Asocy

25) (azalide antibiotic compn. for treating or preventing bacterial or

(azalide antiblotic compn. for treating or preventing Deterior of protocoal infection)

II 3483-12-3, Dithlothreitol 6892-68-8, Dithloerythritol RL: TRU (Therapeutic use); BIOL (Blological study); USES (Uses)

(azalide antiblotic composition for treating or preventing bacterial or protocoal infection)

RN 3483-12-3 HCAPLUS

CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 6892-68-8 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME) Relative stereochemistry.

L42 ANSWER 9 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 10 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
study) 18ES (18es)
11 3483-12-3 Dithickhreitol
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological
study); USES (18es)
(ribozyme for treatment of proliferative skin and eye diseases)
RN 3483-12-3 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

ANSWER 10 OF 31 HCAPLUS COPYRIGHT 2008 ACS on SIN
AN 2001:339735 HCAPLUS
DN 134:348295
II Ribozyme therapy for the treatment of proliferative skin and eye diseases
IN RObbins, Joan M.; Tritr, Richard
PA Immusol Incorporated, USA
SO COLEN: PIXED2
DEPARTH
LA English
FAN.CNT I PATENT NO. KIND DATE APPLICATION NO. DATE PI CC IT IT IT

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ANSWER 11 OF 31 HCAPLUS COPTRIGHT 2008 ACS on STN AN 2000:772416 HCAPLUS
DN 133:325693
Stablization of implantable hisprosthetic devices
The Childrent J.: Vysachare, Narondra
The Childrent S Hospital of Philadelphia, USA
OPCI Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA English
RAN.CNI 1
PATENT NO. KIND DATE APPLICATION NO
DIM MC-2000064373
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Skin
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ANSWER 12 OF 31 HCAPLUS COPYRIGHT 2008 ACS on SIN 2000:383881 HCAPLUS

Agents for permanently shaping keratin fibers
Bernecker, Ulrich; Blankenburg, Guenter; Wolfram, Leszek J.; Poppe, Elisabeth
Hans Schwarzkopf G.m.b.H. & Co. K.-G., Germany
DCT Int. Appl., 28 pp.
CUDEN: PIXD2

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LA German
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PATENT NO.
                                                                                                                                                          KIND DATE APPLICATION NO. 6 A1 20000608 1999WO-EP0009010
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        NOD-2000032156
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        20000608
        1999NO-EP0009010
        19991123

        M: JP, US
        RM: AT, BR, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
        SET, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

        DE—-1985566
        A1
        20000608
        1998DE-100055606
        19981202

       PT, SE

DE.——19855606 Al 2000608 1998DE-100055606 19981202 <--
PRAI 1998DE-100055606 A 19981202 <--
PRAI 1998DE-100055606 A 19981202 <--
BA An aqueous hair-waving composition (PH 6-9.5) containing ≥1 water-soluble sulfite, bisulfite, or H sulfite in the form of their alkali metal, alkaline earth, or ammonium salts in an amount of 2-15 weight8, ≥2 thio compound 0.01-5 weight8, and 21 protein derivative causes minimal damage to the hair while having a good waving effect. A sulfable emposition contained to the contained of the co
                                        keratin hydrolyzate) 2, 33% NaOH solution to pH 8, and H2O to 100
weight8.
ICM AGIK-007/09
ICM AGIK-007/09
Sisulfites
Proteins, general, biological studies
Sulfites
Thiols (organic), biological studies
Ri: BBU (Biological use, unclassified); BIOL (Biological study); USES
(Uses of permanently shaping keratin fibers)
Keratins
Ri: BBU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hydrolyzates; agents for permanently shaping keratin fibers)
                                           (Uses) (Uses) (Widolystaes; agents for permanently shaping keratin fibers)
Hair preparations
Hair preparations
(hibers)
Horson (Hibers)
Frotein hydrolystaes
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
                                        (Uses) uncassified; agents for permanently shaping keratin fibers) (quaternized; agents for permanently shaping keratin fibers) 52-89-1 SZ-90-4, 1-Cysteine, biological studies 60-22-1, Cysteamine 70-18-8, Glutathione, biological studies 3643-12-3, Dithiothreitol 10192-30-0, Ameroilum hydrogen sulfite RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Gagents for permanently shaping keratin fibers) 3483-12-3, Dithiothreitol RI: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (Agents for permanently shaping keratin fibers)
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HS SH

RE.CNT 6

USES (Uses) (Uses) (Uses) (Agents for permanently shaping keratin fibers) (User) (User

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ANSMER 13 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
1999:440750 HCAPLUS
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13121
     CS
SO
                                             Textile Research Institute
Journal
English
The keratin in wool is a highly crosslinked protein. The high
mol. welght, crosslinked structure prevents its shaping into films without
extensive decomposition Since the crosslinks are 5-5s bridges, reducing
extensive decomposition Since the crosslinks are 5-5s bridges, reducing
polymers. In this work, wool fibers are pretreated with an aqueous solution of
various reducing agents to open the disulfide bonds, and then pressed into
films at 130-150°C and pressures of 41.7-66.7 MPa in a hydraulic
press. The optimum conditions to obtain clear, transparent films include
using NaZSOJ in aqueous alc. solns, before pressing 135°C and 55.6 MPa.
38-3 (Plastics Fabrication and Uses)
wool keratin film transparency
Plastic films transparency
Mool
                                                                         ol
(transparency of films from reduction and pressing of wool keratin
                                                Creatins
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(USes)
(transparency of films from reduction and pressing of wool keratin
(transparency of films from reduction and pressing of wool keratin

1 3483-12-3, DIT 7631-90-5, Sodium bisulfite 7757-83-7, Sodium

sulfite 7772-98-7, Sodium hyposulfite 16731-55-8, Potassium
pyrosulfite

RL: NUU (Other use, unclassified); USES (Uses)
(reducing agent; transparency of films from reduction and pressing of wool

11 3483-12-3, DIT

RL: NUU (Other use, unclassified); USES (Uses)
(reducing agent; transparency of films from reduction and pressing of wool
keratin)

RN: 3483-12-3 KCAPLUS

CR: 2,3-Butamediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)
     Relative stereochemistry.
```

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

Department of Pharmacology, Uni 55455, USA Pain (1999), 80(1,2), 37-43 CODEN: PAINDB; ISSN: 0304-3959 Elsevier Science B.V. Journal CODEN: PAINDE; ISSN: 0304-3959
Elsevier Science B.V.

Journal
English or science B.V.

Journal
English or science B.V.

Feel of the N-methyl-d-aspartate (NMCA) receptor fine the control of the control the treatment of chronic pain.

CC 2-5 (Mammalian Borones)

II Pain

Skin, disease

(allodynia, redox manipulation of 1800A receptors in vivo in relation to
(allodynia, redox manipulation of 1800A receptors in vivo in relation to
in mice)

II 3483-12-3, Dithlothreitol
Rh: ABV (Adverse effect, including toxicity); BAC (Biological
activity or effector, except adverse); BSU (Biological study,
unclassified); BIOL (Biological study); Borovoked currents in vitro
whereas oxiditing agent 5,5'-dithlo-bis-(2-nitrobenroic acid) attenuate
these currents]

II 3483-12-3, Dithlothreitol
Rh: ABV (Adverse effect, including toxicity); BAC (Biological
activity or effector, except adverse); BSU (Biological study,
unclassified); BIOL (Biological Study);
unclassified); BIOL (Biological Study)
whereas oxiditing agent 5,5'-dithlo-bis-(2-nitrobenroic acid) attenuate
these currents)

RN 3483-12-3 RADBUS

RN 3483-12-3 RADBUS Relative stereochemistry.

ANSWER 14 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN 1999:127708 HCAPLUS 131:68283 PART 131:68283 P

L42 ANSWER 12 OF 31 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)
RE.CNI 12 THERE ARE 12 CITED REPRENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

50

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ANSMER 15 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
1999:70406 MCAPLUS
130:129770
Depilatory compositions, methods for their preparation and their use
Guillaume, Bruno; Desmosts, Sarah; Ledon, Philippe; Pires, Veronique
Reckitt & Colman France, Fr.; Reckitt & Colman Products Limited
PCT Int. Appl., 24 pp.
CODEN: PIXXD2
Patent
English
CNT 1
DT
LA
FAN
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FAN.	AN.CNI 1 PATENT NO.					KIND DATE				APPL	ICAT	D.								
PI	WO	9902	125				1999	0121		1998	WO-G	B000		1	<					
	W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,			
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	GW,	HU,	ID,	IL,	IS,	JP,	KE,	KG,			
		K₽,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,			
		NO,	NZ,	PL,	PI,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TI,			
		UA.	UG.	US.	UZ.	VN.	YU.	ZW												
	RW:	GH.	GM.	KE.	LS.	MW.	SD.	SZ.	UG.	ZW.	AT.	BE.	CH.	CY.	DE.	DK.	ES.			
		FI.	FR.	GB.	GR.	IE.	IT.	LU.	MC.	NL.	PT.	SE.	BF.	BJ.	CF.	CG.	CI.			
		CM,	GA,	GN,	ML.	MR.	NE.	SN.	TD,	TG										
	GB				A		1999				GB-0	0001	3725		1	9980	626	<		
	GB	2327	190		В		2002	0417												
	CA2296443					A1 19990121				1998CA-002296443						19980626 <				
	AU9881229 AU755351				A	A 19990208				1998	AU-0		19980626 <							
					B2		2002	1212												
	EP1001735 EP1001735				A1		2000	0524		1998	EP-0	0093	0956		1	9980	626	<		
					B1		2003	0319												
	R:	CH,	DE,	ES,	FR,	GB,	IT,	LI												
	BR	9810	552		A		2000	0815		1998	BR-0	0001	0552		1	9980	626	<		
	GB	2367	749		A		2002	0417		2001	GB-0	0002	7115		1	9980	626	<		
	GB	2367	749		В		2002	0605												
	ES2195357				Т3		2003	1201		1998	ES-0	0093	0956		1	9980	626	<		
	ZA	9805	966		A		1999	0304		1998	ZA-0	0000	5966		1	9980	707	<		
	IN-1998	MA01	696		A		2005	0729		1998	IN-M	000A	1696		1	9980	730	<		
	MX20	0000	247		A		2004	1203		2000	MX-0	0000	0247		2	0000	105	<		
	US	6306	380		B1		2001	1023		2000	US-0	0046	2331		2	0000	407	<		
PRAI	1997EP-	A		1997	0709	<-	_													
	1997GB-	2	A		1997	0926	<-	_												
	1998GB-		A3		1998			_												
	1998WO-	8	W		1998	0626	<-	_												

1997GB-000120372 A 19970926 c—
1998GB-00013728 A 19970926 c—
1998GB-00013728 A 19970926 c—
1998GB-00013728 A 19970926 c—
The invention provides depilatory compns. comprising (a) a continuous aqueous phase; (b) a depilatory agent; and (c) an oil phase comprising (i) a non-polar oil separated from the continuous aqueous phase by a bilayer phase comprising (ii) a surfactant; and (iii) a polar substance; wherein the composition is substantially free from tertiary anines; processes for their composition is substantially free from tertiary anines; processes for their remains of the composition of the

ANSWER 16 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
1998:682267 HCAPLUS
129:320988 TO THE PROPERTY OF THE PROPER

PA SO

	PATENT		KIN		DATE									DATE				
PI							1998WO-GB0000950											
	W:	DK,	EE,	ES,	FI,	GB,	BA, GE,	GH,	GM,	GW,	HU,	ID,	IL,	IS,	JP,	KE,	KG,	
		NO,	NZ,	PL,	PT,	RO,	LR, RU,	SD,										
	RW:	GH,	GM,	KE,	LS,	MW,	YU, SD,	SZ,										
		GΑ,	GΝ,	ML,	MR,	NE,	LU, SN,	TD,	IG									
	CA2286035			Al														
	AU9868460 AU737860					1998	1030		1998AU-000068460					19980		330	<	
				В2		2001	0830											
	EP973490 EP973490			Al Bl		2000			1998	EP-0	0091	3942		1:	9980	330	<	
							2003											
	BR	9808	503		A		2000	0523		1998	BR-0	0000	8503		1:	9980	330	<
	ES	2193	523		Т3		2003	1101		1998	ES-0	0091	3942		1:	9980	330	<
	GB2324036			A		1998	1014		1998	GB-0	0000	7190		1:	9980	106	<	
	GB	2324	036		В		2001	0613										
	ZA	9802	940		Α		1998	1109		1998	ZA-0	0000	2940		15	9980	107	<
	IN-1998	MA01:	208		A		2005	0304		1998	IN-M	A000	1208		1:	99806	503	<
	MX	9909	258		A		2001	1031		1999	0-xm	0000	9258		1:	9991	800	<
PRAI	1997EP-	0004	0081	1	Α		1997	0409	<	-								
	1997GB-	0000	1144	7	A		1997	0604	<	-								

1397/GE-000011447 A 1397/GE03 C-1398WG-GE0000550 W 1596033 G-A depliatory composition in the form of an aqueous gel comprises a substance capable of degrading hair kreatin and a water-soluble polymeric binder and is buffered to a pN of from 10.5 to 13.0. The polymeric binder is formed from a first component that is a charged crosslinked polymer and a second component that comprises a linear nonionic and/or charged polymer. The composition is preferably in the form of a stable gel that can be applied by means of a pump spray. A formulation example used Me vinyl ether-maleic anhydride copolymer (Antaron 5706), urea, and K
ICM ASIX-007/155
CC4 (Essential Oils and Cosmetics)
Cosmecics
(depilatories; depilatory compns. containing hair keratin
—degrading agents and polymer binders)
Keratins

-degrading agents and polymer pinners,
Keratins
RL: BBR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(depilatory compns. containing hair keratin-degrading agents and
polymer binders)
Polymyaklylenes, biological studies
Polymacharles, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
("MSes)

RL: BUU (Biological use, unclassified); BfOL (Biological study); USES (Uses) (U

142 ANSMER 15 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
12136-58-2. Lithium sulfide (L125) 13419-67-5 16721-80-5, Sodium
hydrogen sulfide 17123-18-7 20548-36-3, Calcium sulfide 21109-95-5,
30618-84-9, Glyceryl monothicoglycolate 3425-51-2, Potassium
thicoglycolate 37341-53-0, Keratinase 54266-38-5 68148-42-5, Glycerol
monothicoglycolate 68223-93-9, Diammonium dithicoglycolate 84371-00-6
115865-84-4
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(Maid opthibotheritol 6892-89-8, Dithicographical
IT 343-14-4 Opthibotheritol 6892-88-8, Dithicographical
USES (Uses)
(USES)
(Uses)
(Mild depitalory cream compus. free of tertiary amines)
(Mild depitalory cream compus. free of tertiary amines)
NS (Uses)
NS (Uses)
(Mild depitalory cream compus. free of tertiary amines)
NS (3-3-Butanediol, 1, 4-dimercapto-, (2R, 3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 6892-68-8 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME)

Relative stereochemistry.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 16 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
RL: BUU (Biological use, unclassified); BTOL (Biological study);
USSS (User) compns. contg. hair keratin-degrading agents and
(depilatory compns. contg. hair keratin-degrading agents and
RL: BUU (Biological use, unclassified); BTOL (Biological study);
USSS (Uses)
(depilatory compns. containing hair keratin-degrading agents and
polymer binders)
S2-S2-S2 (RCPUMS)
CN 2.1-Buttandolo, 1,4-dimercapto-, (2R,18)-rel- (CA INDEX NAME)

Relative stereochemistry.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 17 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN 1998:207581 HCAPLUS 128:208903 Thiols for prevention and topical treatment of cellulite Sincholle, Daniel Paul, Fr. Fr. Demande, 10 pp. CODEN: FRIXSL FRIXEL FRIXE

CNT 1 PATENT NO. KIND DATE APPLICATION NO.

RN 6892-68-8 HCAPLUS CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME)

L42 ANSWER 18 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN

L42 ANSWER 18 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1997:701471 HCAPLUS
DN 127:351224 TI Desquared compositions containing sulfhydryl compounds
TP Desquared comable Co., USA
PROCEST 6 Gamble Co., USA
O U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 558,944.
CODEN: USXXAM
TP Patent
LA English
FAN.CNT 3
PATENT NO. KIND DATE APPLICATION NO. | Location Skin (desquamation compns. containing sulfhydryl compds.)
70-18-8, Glutathione, biological studies 454-29-5, Homocysteine
616-91-1, N-Acetyl-L-cysteine 3483-12-3, Dithiothreitol
6892-68-8, Dithioerythritol
RN: FMU (Therapeutic usel; BIOL (Biological study); USES 6892-68-8, Dithiosythritol
RL: TRU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(desquamation compns. containing sulfhydryl compds.)
IN 3483-12-3, Dithiothreitol 6892-68-8, Dithiosythritol
RL: TRU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(desquamation compns. containing sulfhydryl compds.)
N 3483-12-3 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 6892-68-8 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME)

Relative stereochemistry.

L42 ANSWER 19 OF 31 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 1997:587287 RCAPLUS
D1 10.12.00 for the components with alkaline protease
IN Nakamura, Akira; Kon, Ryo; Takeuchi, Keiji
PA Lion Corp., Japan
O Jpn. Rokai Tokkyo Koho, 9 pp.
CODEN: JEXXAF
D1 Patent
LA Japanese
FAN.CNI 1

A Japanese PAN. CIM. Japanese PAN. Japanese PA

available for cosmetics, pharmaceuticals, chemical materials, bicchem reagents, etc.

ICM C12P-021/06

ICM C12P-021/06

ICS C12N-0097/54; 601N-001/04; 601N-033/50; C12P-021/06; C12R-001/07

16-2 (Fermentation and Bioindustrial Chemistry)

Section cross-reference(s); 9, 13

Koratins

Roratins

Roratins

Roratins

Roratins

Roratins

Roratins

Roratins

Section cross-reference(s): 9. 13 or reagent)

Section cross-reference(s): 9. 13 or reagent)

(collection of hair components containing peptides, amino acids, melanins, and cuticles by treating hair with alkaline protease in presence of reducing agents)

IR Keratins (allowed the state of th

ANSWER 20 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
1997:583282 HCAPLUS
127:276103
Preparation of hair constitution component with alkaline protease.
Nakamura, Akira; Kno, Nyo; Takeuchi, Keiji
Lion Coep, Japan
COODER: JEXXAF
PALENT
Japanese
CNT 1
PAZENT NO. KIND DATE APPLICATION NO. DATE Relative stereochemistry. HS S S

L42 ANSWER 21 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN

L42 ANSWER 21 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN AN 1996:724318 HCAPLUS DI 125:338723 TI HOVel cosmetic or dermatological compositions I Heusele, Catherine: Le Blay, Jacques POT Int. Appl., 25 pp. COORS: PIXXD2 DI Patent LA English FAN. CREATER APPLICATION N EATEN TO. KIND DATE APPLICATION N APPLICATION NO. DATE 19960530 <--PI AB USBS (Uses)

(commetic compns. containing elastase inhibitors and Amadori products-affecting compds.)

RN 3483-12-3 HCAPUUS

CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME) Relative stereochemistry.

L42 ANSWER 22 OF 31 HCAPLUS COPTRIGHT 2008 ACS ON STN
AN 1996:508725 HCAPLUS
N 125:144993
TI Dyeing of peroxidase-immobilited fibers
IN Anano, Jiro: Takeda Keiji; Takagaki, Tutaka
Anano, Jiro: Takeda Keiji; Takagaki, Tutaka
Opin. Rokai Tokkyo Koho, 3 pp.
COOEN: JIXXAF
DI Patent
LA Japanese
FANICHI
PARRIT NO. KIND DATE APPLICATION N
PARRIT NO.

```
1.42 ANSWER 23 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:340303 HCAPLUS
N 124:352337
II Hair preparations containing protease-bound carriers
IN Kizawa, Kenji; Duui, Toshihiro
D Jan. Kokai Tokky Koho, 6 pp.
CODEN: JUNIA STANDARD AND ANSWERS AND ANSWERS
```

| 142 ANSWER 25 OF 31 HCAPLUS | COPYRIGHT 2008 ACS ON STN | AN 1996:155638 | CAPPLUS | No. 124:155184 | Compositions containing sulfhydryl compounds and Inditerioric | Desguamation compositions containing sulfhydryl compounds and Inditerioric | Compositions containing sulfhydryl compounds and Inditerioric | Compositions containing sulfhydryl compounds and Inditerioric | Compositions containing sulfhydryl composition | Composition |

L42 ANSWER 24 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:24477 HCAPLUS
DN 124:345858
IT Differentiation of keratinthiol and inherent thiol after reductive treatment of wool.

IT control to the control of the con

```
L42 ANSWER 26 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:106557 KCAPLUS
D1 124:124906
II Topical compositions containing sulfhydryl compounds for lightening
hyperjqmented regions in mammalian skin
IN Hillebrand, Greg George
PA Procter and Gamble Co., USA
SO ECT Int. Appl., 27 pp.
TPATENT PATENTAL PROCESSED TO THE PATENTAL PROCESSED TO THE PATENTAL PROCESSED TO THE PATENTAL PATENTAL PATENTAL PATENTAL PATENTAL PATENTAL PATENTAL PATENTAL PATENT NO. KIND DATE APPLICATION NO. DATE
                                                               | DATE | NO. | DATE | PRINCATION NO. | DATE | NO. | DATE | NO. | N
```

USES (Uses)

(topical compns. containing sulfhydryl compds. for lightening hyperpigmented regions in nammalian skin)

1483-12-3, Dithiothretic unclassified; BIOL (Biological study); USES (Uses)

(RISES (Uses)

(topical compns. containing sulfhydryl compds. for lightening hyperpigmented regions in nammalian skin)

143-12-3 (RAJAL)

24,3-Busaneciol., 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

Relative stereochemistry.

ANSWER 27 OF 31 HCAPLUS COPYRIGHT 2008 ACS ON STN 1995;988374 HCAPLUS 124:23789 Hair analysis method Baumgartner, Werner A Psychemetics Corp., USA UCODER, USA UCODER, USANAM PARENT LOUNDER, USANAM PARENT NO. KIND DATE APPLICATION NO. | Regular | Regu A 1995111 A 19940628 B1 20050927 A1 19940818 C 20020115 A1 19940818 APPLICATION NO. 435007100
432 (TOXICOLOGY)
4-2 (TOXICOLOGY)
4-2 (TOXICOLOGY)
7754-8-7, Copper sulfate, user 7784-86-5, Sodium arsenite 9001-09-6, Chymoppal-1 9001-73-4, Expain 3950-01-6
RL: ARG (Analytical reagent use); ARST (Analytical study); USES (USES (USES) USES (Uses)
(hair anal. method)
II 3483-12-3, Dithiothreitol 6892-68-8, Dithioerythritol
RLI ARG (Analytical reagent use); ANSI (Analytical study);
USES (Uses)
IN 1461-13 (NASPLUS)
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (CA INDEX NAME)

L42 ANSWER 26 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L42 ANSWER 27 OF 31 HCAPLUS COPYRIGHT 2008 ACS on SIN

RN 6892-68-8 HCAPLUS CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME)

HS S S SH

L42 ANSWER 28 OF 31 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 6892-68-8 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (CA INDEX NAME)
Relative stereochemistry.

```
Li2 ANSWER 30 OF 31 NCAPLUS COPYRIGHT 2008 ACS on STN
AN 1887:17318 NCAPLUS
N 106:172318
OREF 106:27905a,27908a
I Electrophoresis of hair proteins in the presence of sodium dodecyl sulfate and uran interpretations.
Electrophoresis of hair proteins in the presence of sodium dodecyl sulfate and uran interpretations.
Abt. Kriminaltech., Landeskriminalamt Niedersachsen, Hannover, D-3000/1, Fed. Rep. Ger.
So Electrophoresis (1987), 8(3), 153-7
CODEN: ELCTIN; ISSN: 0173-0835
I Electrophoresis (1987), 8(3), 153-7
CODEN: ELCTIN; ISSN: 0173-0835
I English
A A fast and simple procedure for routine typing of human head hair is described. Hair proteins, extracted in a solution containing 5DS, urea, and dithiothreticle were separated electrophoresically in the presence of 6M urea.
Objective of the separated electrophoresically in the presence of 6M urea.
Objective of the separated electrophoresically in the presence of 6M urea.
Objective of the separated electrophoresically in the presence of 6M urea.
Objective of the separated electrophoresically in the presence of 6M urea.
Objective of the separated electrophoresic objective of the separated electrophoresic objective of the separated electrophoresic objective objectiv
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142 ANSWEN 31 OF 31 HCADIUS COPYRIGHT 2008 ACS on STR

AN 1891:193718 HCAPLUS
DN 94:193718
GNEF 94:31705a, 31708a
II Blochemical origin of some concealed defects in raw furs
AU Shaklanov, I. G.
CS Lemingr. Inst. Sov. Torg., Lemingrad, USSR
COCORN. HCOPAJ; ISSN: 0023-4354
DI JOURNAL
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(FILE 'HOME' ENTERED AT 14:46:05 ON 08 APR 2008)
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FILE 'HCAPLUS' ENTERED AT 14:46:51 ON 08 APR 2008 1 US20070124868 /PN

FILE 'REGISTRY' ENTERED AT 14:47:16 ON 08 APR 2008

FILE 'HCAPLUS' ENTERED AT 14:47:16 ON 08 APR 2008

TRA L1 1- RN : 5 TERMS

FILE 'REGISTRY' ENTERED AT 14:47:16 ON 08 APR 2008 L3 $\,$ 5 SEA L2

FILE 'CASREACT' ENTERED AT 14:49:58 ON 08 APR 2008

FILE 'REGISTRY' ENTERED AT 17:32:00 ON 08 APR 2008
L10 STR
L11 0 L10 SAM

L12 71 L10 FULL SAV TEM J714C1G1/A L12 L13 0 L12 AND L3

FILE 'HCAPLUS' ENTERED AT 17:36:27 ON 08 APR 2008 L14 6402 L12

L17 12838 E3-9/BI E FUR/CT E E3+ALL L18 3044 E6+OLD L19 12247 E8-11/BI

E HIDE POWDER/CT/
E HIDE POWDER/CT
E E3+ALL

E SKIN/CT

L20 332 E5

E HIDE PROCESSING/CT

E E3+ALL

E LEATHER/CT

E E3+ALL

L21 25319 E1

E E3+ALL 129101 E4+OLD,NT E E20+ALL L23 14613 E7

L23 14613 E7 L24 20804 E8-11/BI L25 1 L15 AND L16-23 L26 92 L14 AND L16-23 L27 44 L26 AND L12 (L) USES+NT/RL

L28 43 L14 AND L24 L29 23 L28 AND L12 (L) USES+NT/RL L30 48 L27, L29

QUE PD<=20041112 OR AD<=20041112 OR PRD<=20041112
L32 QUE PD<=20031112
L33 QUE PD<=20031117
L34 QUE PD<=20031117 OR AD<=20031117 OR PRD<=20031117
L35 36 L30 AND L31, L34

L36 29 L35 AND L32-33 L37 1 L25 AND L31,L34

L38		7 L35 NOT L36 SEL HIT RN
L39	FILE	'REGISTRY' ENTERED AT 17:50:56 ON 08 APR 2008 2 E1-2
	FILE	'HCAPLUS' ENTERED AT 17:51:18 ON 08 APR 2008 SEL HIT RN L36
L40	FILE	'REGISTRY' ENTERED AT 17:52:05 ON 08 APR 2008 2 E3-4
L41 L42 L43 L44		'HCAPLUS' ENTERED AT 17:52:25 ON 08 APR 2008 SEL AN DN L38 6-7 2 E5-10 AND L38 31 L36,L41 5068 L14 AND L32-33 4995 L43 NOT L25-30,L35-38 SEL HIT RN L44
L45 L46 L47 L48 L49 L50		'REGISTRY' ENTERED AT 17:58:00 ON 08 APR 2008 50 E11-60 25 L45 NOT (PMS OR MXS)/CI 22 L46 NOT (D OR FE)/ELS 18 L47 NOT (C4H1006S2 OR C18H22O6S2 OR C4H6O4S2) 17 L48 NOT COMPD 16 L49 NOT C4H10O8S2
L51 L52 L53 L54 L55 L56 L57		'HCAPLUS' ENTERED AT 18:05:37 ON 08 APR 2008 4971 L50 AND L44 7468 L16 AND PD<=20021117 379 L52 AND PIGSKIN 307 L53 AND L16 (L) PIGSKIN? 191 L54 AND 45/SC,SX 1 L55 AND MANTLE MICROSTRUCTURE?/TI 17 L55 AND ENG/LA